

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1976:64213 CAPLUS
 DN 84:64213
 ED Entered STN: 12 May 1984
 TI Intermetallic compounds from metal oxides and metals
 IN Kando, Katsumi; Noda, Fumiyoshi; Tsuzuki, Yoshihiro; Suzuki, Toshiharu
 PA Toyota Motor Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 INCL 10A323
 CC 56-3 (Nonferrous Metals and Alloys)
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 50036302	A2	19750405	JP 1973-87011	19730802 <--
JP 53041630	B4	19781106		
PRAI JP 1973-87011	A	19730802		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 50036302	INCL	10A323

AB Intermetallic compds. are made by igniting powdered mixts. of metal oxides and metals with a spark plug in an oxidation or reduction atmospheric to initiate their exothermic reaction. The intermetallic compds. have good sinterability and are used for manufacture of high-strength parts. Thus, NiO (<250 mesh) was mixed with 30% Al (<200 mesh) for 24 hr, ignited by spraying with propane gas over a spark plug, which sparks at 900 times/min, and filtered to obtain (1-15 μ) Ni₃Al [12003-81-5] powder containing trace Ni.

ST nickel aluminum intermetallic compd; intermetallic compd powder manuf
 IT 12003-81-5
 RL: USES (Uses)
 (powdered, by ignition of aluminum with nickel oxide)
 RN 12003-81-5

L13 ANSWER 2 OF 3 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
 AN 1976-60353X [32] WPIX
 TI Intermetallic cpds. with good sinterability - obtd. by igniting powder mixts. of metal oxides and metals with spark plug.
 DC M26 P53
 PA (TOYT) TOYOTA JIDOSHA KK
 CYC 1

PI JP 50036302	A	19750405 (197632)*	<--
JP 53041630	B	19781106 (197848)	
PRAI JP 1973-87011		19730802	
IC B22F009-00; C22C001-02			
AB JP 50036302 A UPAB: 19930901			

Intermetallic compds. are made by igniting powdered mixts. of metal oxides and metals with a spark plug in an oxidation or reduction atmospheric to initiate their exothermic reaction. The intermetallic compds. have good sinterability and are used for manu. of high-strength parts. In an example, NiO (<250 mesh) was mixed with 30% Al (<200 mesh) for 24 hr., ignited by spraying with propane gas over a spark plug, which sparks at 900 times/min., and filtered to obtain (1-15 mu) Ni₃Al powder containing trace Ni.

FS CPI GMPI
 FA AB
 MC CPI: M26-A

L13 ANSWER 3 OF 3 JAPIO (C) 2005 EPO on STN
AN 1975-036302 JAPIO
PI **JP 50036302 A** 19750405 Showa
AI JP 1973-87011 (JP4887011 Showa) 19730802
PRAI JP 1973-87011 19730802
SO INPADOC
IC ICM C22C001-00

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